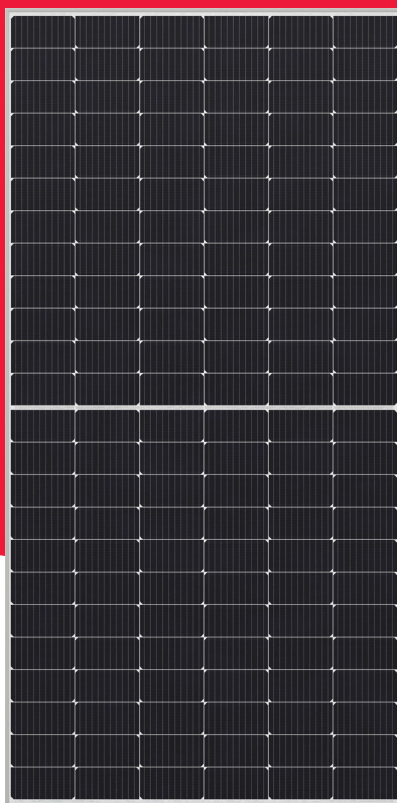


NU-JD Series



# NU-JD545 / 550

545 / 550 W


The Project Solution





## Powerful product features

- +%** Guaranteed positive power tolerance (0/+5 %)
-  Module efficiency 21.1 / 21.3 %  
PERC monocrystalline silicon photovoltaic modules
-  Max. system voltage 1,500 V  
Lower BOS costs by longer strings

- MBB** MBB busbar technology  
Improved reliability  
Higher efficiency  
Reduced series resistance

-  Half-cut cell  
Improved shading performance  
Lower internal losses

-  Tested and certified  
VDE, IEC/EN61215, IEC/EN61730  
Safety class II, CE, UKCA, MCS  
Fire rating class C

-  Robust product design  
PID resistance test passed  
Salt mist test passed (IEC61701)  
Ammonia test passed (IEC62716)  
Dust and sand test passed (IEC60068)

## Your solar partner for life

- 60 YEARS** 60 years of solar expertise

- 25 YEARS** Linear power output guarantee

- 15\* YEARS** Product guarantee not on roof

-  Local support team in Europe

- 50 MIL** 50 million PV modules installed

- 25\* YEARS** Product guarantee on roof



Energy Solutions

**SHARP**  
Be Original.

\* Applicable for modules installed within the EU and additional listed countries.  
Please check the guarantee conditions for your area before purchasing.

## Electrical data (STC)

		NU-JD545	NU-JD550	
Maximum power	$P_{max}$	545	550	$W_p$
Open-circuit voltage	$V_{oc}$	50.54	50.70	V
Short-circuit current	$I_{sc}$	13.73	13.81	A
Voltage at point of maximum power	$V_{mpp}$	41.83	42.02	V
Current at point of maximum power	$I_{mpp}$	13.03	13.09	A
Module efficiency	$\eta_m$	21.1	21.3	%

STC = Standard Test Conditions: irradiance 1,000 W/m<sup>2</sup>, AM 1.5, cell temperature 25 °C.

Rated electrical characteristics are within ±10 % of the indicated values of  $I_{sc}$ ,  $V_{oc}$  and 0 to +5 % of  $P_{max}$ .

Reduction of efficiency from an irradiance change of 1,000 W/m<sup>2</sup> to 200 W/m<sup>2</sup> ( $T_{module} = 25$  °C) is less than 3 %.

## Electrical data (NMOT)

		NU-JD545	NU-JD550	
Maximum power	$P_{max}$	408.72	412.46	$W_p$
Open-circuit voltage	$V_{oc}$	47.90	48.05	V
Short-circuit current	$I_{sc}$	11.13	11.20	A
Voltage at point of maximum power	$V_{mpp}$	39.00	39.17	V
Current at point of maximum power	$I_{mpp}$	10.48	10.53	A

NMOT = Nominal Module Operating Temperature: 42.5 °C, irradiance 800 W/m<sup>2</sup>, air temperature of 20 °C, wind speed of 1 m/s.

## Mechanical data

Length	2,278 mm
Width	1,134 mm
Depth	35 mm
Weight	27.5 kg

## Temperature coefficient

$P_{max}$	-0.341 %/°C
$V_{oc}$	-0.262 %/°C
$I_{sc}$	0.054 %/°C

## Limit values

Maximum system voltage	1,500 V DC
Over-current protection	25 A
Temperature range	-40 to 85 °C
Max. mechanical load (snow/wind)	2,400 Pa
Tested snow load (IEC61215 test pass*)	5,400 Pa

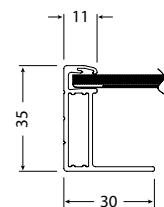
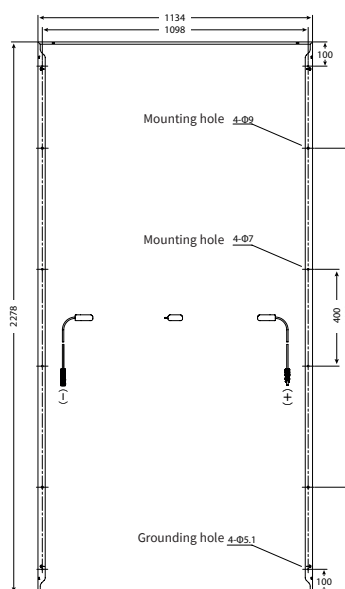
## Packaging data\*\*

Modules per pallet	31 pcs
Pallet size (L × W × H)	2.31 m × 1.13 m × 1.25 m
Pallet weight	Approx. 945 kg

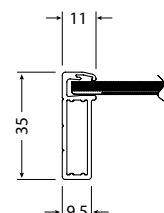
\*\*Special offloading requirements, please refer to QR code or: [www.sharp.eu/nujd-offloading](http://www.sharp.eu/nujd-offloading)



## Dimensions (mm)



Frame long side cross section



Frame short side cross section

\*Please refer to SHARP's installation manual for details.

## General data

Cells	Half-cut cell mono, 182 mm x 91 mm, MBB, 2 strings of 72 cells in series
Front glass	Anti-reflective high transmissive low iron semi-tempered glass, 3.2 mm
Backsheet	White
Frame	Anodized aluminium alloy, silver
Cable	Ø 4.0 mm <sup>2</sup> , length 1,750 mm [or on request (+) 397 mm, (-) 50 mm]
Connection box	IP68 rating, 3 bypass diodes
Connector	C1, IP68

Note: Technical data is subject to change without prior notice. Before using SHARP products, please request the latest data sheets from SHARP. SHARP accepts no responsibility for damage to devices which have been equipped with SHARP products on the basis of unverified information. The specifications may deviate slightly and are not guaranteed. Installation and operating instructions are to be found in the corresponding handbooks, or can be downloaded from [www.sharp.eu](http://www.sharp.eu). This module should not be directly connected to a load.